UNITED STATES PATENT AND TRADEMARK OFFICE

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10/808,910	03/24/2004	John Armstrong	EFIM0228	8041

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EXAMINER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS,
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>24 March 2004</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-42</u> is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-42</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>24 March 2004</u> is/are: a)☐ accepted or b)☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All   b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date *See Continuation Sheet*.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :3/24/04, 6/29/05, 7/05/05, 9/13/05, 10/16/07, 10/16/07.

DETAILED ACTION

1.   This action is in response to communications filed March 24, 2004.

2.   Claims 1- 42 are pending in this application.

Drawings

3.   The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because

reference characters "16" and "20" have both been used to designate a directory server (page 8,

line 27).

4.   The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because

reference characters "22" and "24" have both been used to designate a second network (page 18,

lines 3, 13, 18, & 20; page 23, lines 19 & 21; Figures 7 & 12).

5.   The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they

include the following reference character(s) not mentioned in the description: Figures 7, 10, &

12's characters "16", "18", & "28". In Figures 7, 10, & 12, characters "18" & "28" are not

described in the specification in relation to the objects displayed in the figure. In Figures 7, 10,

& 12, the Directory Server is described by character "16", whereby it has already been

established that the Directory Server is represented by character "20".

6.   Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to

the Office action to avoid abandonment of the application. Any amended replacement drawing

sheet should include all of the figures appearing on the immediate prior version of the sheet,

even if only one figure is being amended. Each drawing sheet submitted after the filing date of

an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

be notified and informed of any required corrective action in the next Office action. The

objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

7.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed
> in the United States before the invention by the applicant for patent or (2) a patent granted on an application for
> patent by another filed in the United States before the invention by the applicant for patent, except that an
> international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this
> subsection of an application filed in the United States only if the international application designated the United
> States and was published under Article 21(2) of such treaty in the English language.

8.   Claims 1-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Teo et al

(U.S. Patent No. 7,293,077), hereinafter Teo.

9.   With respect to claim 1, Teo discloses a system comprising: a first network device

(column 6, lines 25-29) coupled to a first network (VLAN, column 6, lines 20-24), the first

network coupled to a second network (column 2, lines 21-25, whereby the first network is

mentioned above, and the second network is the internet), the first network device comprising

information identifying the first network device on the first network (column 6, lines 25-29); and

a directory server coupled to the second network (column 3, lines 54-61; whereby the router

contains a routing table, thereby making it capable of "registering controlling access to

information about network devices coupled to a first network" as disclosed in the specification),

the directory server adapted to register the identification information (column 7, lines 33-44,

whereby the "routing table entries" are contain, and register the identification information).

10.   With respect to claim 2, Teo discloses the system of claim 1, wherein the first network

device comprises one of a computer, personal digital assistant, pager, cellular telephone,

handheld messaging device, facsimile machine, copier, printer, telephone, security camera,

household appliance, vending machine, kiosk, or digital camera (column 16, lines 41-46).

11.   With respect to claim 3, Teo discloses the system of claim 1, wherein the first network

device comprises one of an inkjet printer, laser printer, wide format printer, or dot matrix printer

(column 16, lines 35-46).

12.   With respect to claim 4, Teo discloses the system of claim 1, wherein the first network

device comprises an Internet protocol telephone (column 4, line 6; column 13, lines 24-25).

13.   With respect to claim 5, Teo discloses the system of claim 1, wherein the first network

device comprises a network connection for coupling to the first network (column 5, lines 15-18;

Figure 1).

14.   With respect to claim 6, Teo discloses the system of claim 1, wherein the first network

comprises a local area network (column 2, lines 52-59, whereby it is inherently known in the art

that a private network is an implemented of a local area network; column 6, lines 20-24).

15.   With respect to claim 7, Teo discloses the system of claim 1, wherein the first network

comprises a plurality of interconnected networks (column 2, lines 29-33).

16.   With respect to claim 8, Teo discloses the system of claim 1, wherein the second network

comprises any of a wide area network, global network, public network, or the Internet (column 2,

lines 21-24).

17.   With respect to claim 9, Teo discloses the system of claim 1, wherein the first network

comprises a firewall, and the first network device is located within the firewall (column 15, lines

35-42).

18.   With respect to claim 10, Teo discloses the system of claim 1, wherein the first network

comprises a firewall (column 15, lines 35-42), and the directory server is located outside the

firewall.

19.   With respect to claim 11. Teo discloses the system of claim 1, wherein the directory

server is coupled to a third network (column 8, lines 21-37; Figure 7, whereby each set of leaf

nodes construes a network in accordance with the specification).

20.   With respect to claim 12, Teo discloses the system of claim 1, wherein the identifying

information comprises an address (column 2, lines 1-7).

21.   With respect to claim 13, Teo discloses the system of claim 1, wherein the identifying

information comprises an address of the first network device on the first network (column 6,

lines 25-35).

22.   With respect to claim 14, Teo discloses the system of claim 1, wherein the identifying

information comprises an address of the first network on the second network (column 10, lines

53-65).

23.   With respect to claim 15, Teo discloses a system comprising: first and second network

devices (column 6, lines 25-29) coupled to a first network (VLAN, column 6, lines 20-24), the

first network coupled to a second network (column 2, lines 21-25, whereby the first network is

mentioned above, and the second network is the internet), the first network device comprising

first information identifying the first network device on the first network (column 6, lines 25-29),

the second network device comprising second information identifying the second network device

on the first network (column 6, lines 43-48); and a directory server coupled to the second

network (column 3, lines 54-61; whereby the router contains a routing table, thereby making it

capable of "registering controlling access to information about network devices coupled to a first

network" as disclosed in the specification), the directory server adapted to register the first and

second identification information (column 7, lines 33-44, whereby the "routing table entries" are

contain, and register the identification information).

24.   With respect to claim 16, Teo discloses the system of claim 15, wherein the first and

second network devices each comprise one of a computer, personal digital assistant, pager,

cellular telephone, handheld messaging device, facsimile machine, copier, printer, telephone,

security camera, household appliance, vending machine, kiosk, or digital camera (column 16,

lines 41-46).

25.   With respect to claim 17, Teo discloses the system of claim 15, wherein the first network

device comprises a computer and the second network device comprises one of an inkjet printer,

laser printer, wide format printer, or dot matrix printer (column 16, lines 35-46).

26.   With respect to claim 18, Teo discloses the system of claim 15, wherein the first network

device comprises a computer and the second network device comprises an Internet protocol

telephone (column 4, line 6; column 13, lines 24-25).

27.   With respect to claim 19, Teo discloses the system of claim 15, wherein the first and

second network devices each comprise a network connection for coupling to the first network

(column 5, lines 15-18; Figure 1).

28.   With respect to claim 20, Teo discloses the system of claim 15, wherein the first network

comprises a local area network (column 2, lines 52-59, whereby it is inherently known in the art

that a private network is an implemented of a local area network; column 6, lines 20-24).

29.   With respect to claim 21, Teo discloses the system of claim 15, wherein the first network

comprises a plurality of interconnected networks (column 2, lines 29-33).

30.   With respect to claim 22, Teo discloses the system of claim 15, wherein the second

network comprises any of a wide area network, global network, public network, or the Internet

(column 2, lines 21-24).

31.   With respect to claim 23, Teo discloses the system of claim 15, wherein the first network

comprises a firewall, and the first and second network devices are located within the firewall

(column 15, lines 35-42).

32.   With respect to claim 24, Teo discloses the system of claim 15, wherein the first network

comprises a firewall (column 15, lines 35-42), and the directory server is located outside the

firewall.

33.   With respect to claim 25, Teo discloses the system of claim 15, wherein the directory

server is coupled to a third network (column 8, lines 21-37; Figure 7, whereby each set of leaf

nodes construes a network in accordance with the specification).

34.   With respect to claim 26, Teo discloses the system of claim 15, wherein the first and

second identifying information each comprises an address (column 2, lines 1-7).

35.   With respect to claim 27, Teo discloses the system of claim 15, wherein the first

identifying information comprises an address of the first network device on the first network

(column 6, lines 25-35) and the second identifying information comprises an address of the

second network device on the first network (column 6, lines 44-47; Figure 3b; whereby the

Network Layer Identifier [NLI] represents the address of the network, which is the same for both

the first and second network devices, while the Link Layer Identifier [LLI] represents the address

of each of the first and second devices on the first network).

36.   With respect to claim 28, Teo discloses the system of claim 15, wherein the first and

second identifying information comprises an address of the first network on the second network

(column 10, lines 53-65).

37.   With respect to claim 29, Teo discloses a system comprising: first and second network

devices (column 6, lines 25-29) coupled to a first network (VLAN, column 6, lines 20-24), the

first network coupled to a second network (column 2, lines 21-25, whereby the first network is

mentioned above, and the second network is the internet), the first network device comprising

first information identifying the first network device on the first network (column 6, lines 25-29),

the second computer device comprising second information identifying the second network

device on the first network (column 6, lines 43-48); a directory server coupled to the second

network (column 3, lines 54-61; whereby the router contains a routing table, thereby making it

capable of "registering controlling access to information about network devices coupled to a first

network" as disclosed in the specification), the directory server adapted to register the first and

second identification information (column 7, lines 33-44, whereby the "routing table entries" are

contain, and register the identification information), and adapted to process requests for

identification information about registered network devices (column 10, lines 53-65).

38.   With respect to claim 30, Teo discloses the system of claim 29, wherein the first and

second network devices each comprise one of a computer, personal digital assistant, pager,

cellular telephone, handheld messaging device, facsimile machine, copier, printer, telephone,

security camera, household appliance, vending machine, kiosk, or digital camera (column 16,

lines 41-46).

39.   With respect to claim 31, Teo discloses the system of claim 29, wherein the first network

device comprises a computer and the second network device comprises one of an inkjet printer,

laser printer, wide format printer, or dot matrix printer (column 16, lines 35-46).

40.   With respect to claim 32, Teo discloses the system of claim 29, wherein the first network

device comprises a computer (column 16, lines 41-46) and the second network device comprises

an Internet protocol telephone (column 4, line 6; column 13, lines 24-25).

41.   With respect to claim 33, Teo discloses the system of claim 29, wherein the first and

second network devices each comprise a network connection for coupling to the first network

(column 5, lines 15-18; Figure 1).

42.   With respect to claim 34, Teo discloses the system of claim 29, wherein the first network

comprises a local area network (column 2, lines 52-59, whereby it is inherently known in the art

that a private network is an implemented of a local area network; column 6, lines 20-24).

43.   With respect to claim 35, Teo discloses the system of claim 29, wherein the first network

comprises a plurality of interconnected networks (column 2, lines 29-33).

44.   With respect to claim 36, Teo discloses the system of claim 29, wherein the second

network comprises any of a wide area network, global network, public network, or the Internet

(column 2, lines 21-24).

45.   With respect to claim 37, Teo discloses the system of claim 29, wherein the first network

comprises a firewall, and the first and second network devices are located within the firewall

(column 15, lines 35-42).

46.   With respect to claim 38, Teo discloses the system of claim 29, wherein the first network

comprises a firewall, and the directory server is located outside the firewall (column 15, lines 35-

42).

47.   With respect to claim 39, Teo discloses the system of claim 29, wherein the directory

server is coupled to a third network (column 8, lines 21-37; Figure 7, whereby each set of leaf

nodes construes a network in accordance with the specification).

48.   With respect to claim 40, Teo discloses the system of claim 29, wherein the first and

second identifying information each comprises an address (column 2, lines 1-7).

49.   With respect to claim 41, Teo discloses the system of claim 29, wherein the first

identifying information comprises an address of the first network device on the first network

(column 6, lines 25-35) and the second identifying information comprises an address of the

second network device on the first network (column 6, lines 44-47; Figure 3b; whereby the

Network Layer Identifier [NLI] represents the address of the network, which is the same for both

the first and second network devices, while the Link Layer Identifier [LLI] represents the address

of each of the first and second devices on the first network).

50.   With respect to claim 42, Teo discloses the system of claim 29, wherein the first and

second identifying information comprises an address of the first network on the second network

(column 10, lines 53-65).

51.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

a.   Yach et al   Pub No.   2002/0128036

b.   Keeney et al   Patent No.   7,095,518

c.   Spinks et al   Pub No.   2001/0029534

d.   Schaefer   Patent No.   6,640,253

e.   Hall et al   Pub. No.   2002/0133555

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rubin Blake whose telephone number is (571) 270-3802. The examiner can normally be reached on M-R: 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nabil El-Hady can be reached on (571) 272-3963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BJR

12/19/2007

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Supervisory Patent Examiner, Art Unit 2154